

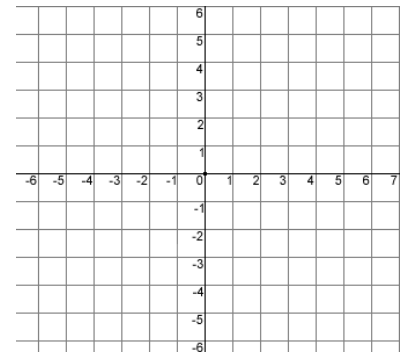
Chapter 6: Systems

Graphing Linear Inequalities 6.5 Day #1 WS

Period: _____ Date: _____

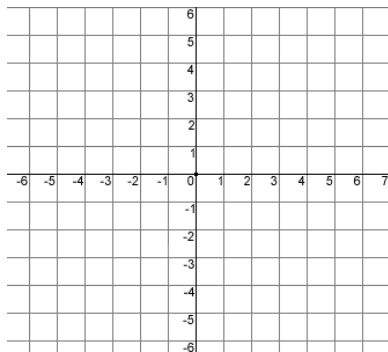
Graphing Inequalities:

- Determine whether line is solid (\leq, \geq) or dashed ($<, >$)
- Put in “ $y =$ ” form to determine if shading is above ($y >$) or below ($y <$)

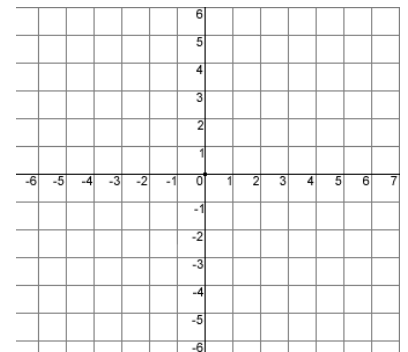
Example: Graph the inequality: $2x + 3y \leq -3$ 

Graph each linear inequality: a) Solve for y (if necessary). b) Determine if boundary is **solid** or **dashed** then graph. c) Shade above or below (check with a point in (true) or out (false) of shaded region).

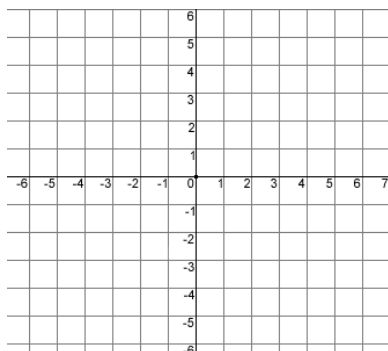
1) $y \geq -2x + 5$



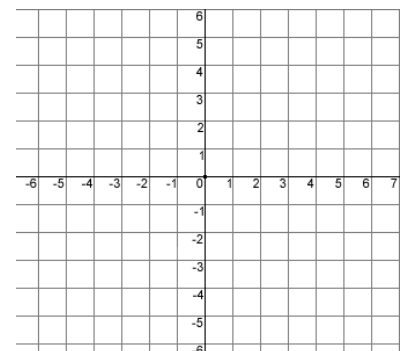
2) $y < 4x + 4$



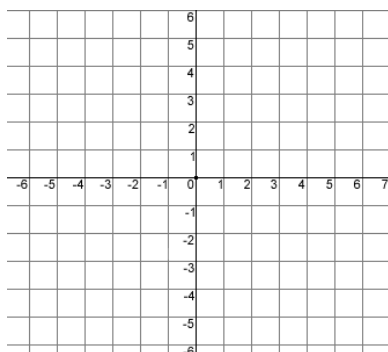
3) $y > -\frac{4}{5}x$



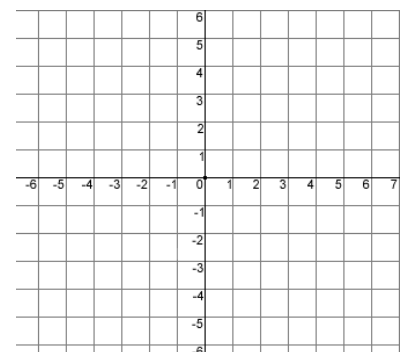
4) $y \geq -x + 1$



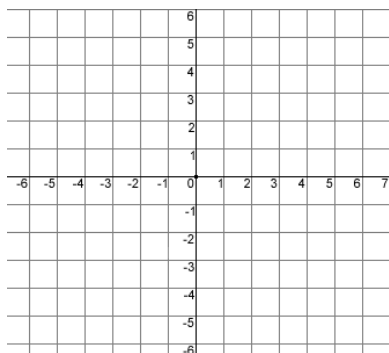
5) $y > 1$



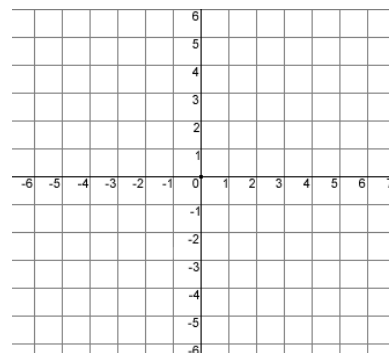
6) $y < \frac{7}{3}x - 5$



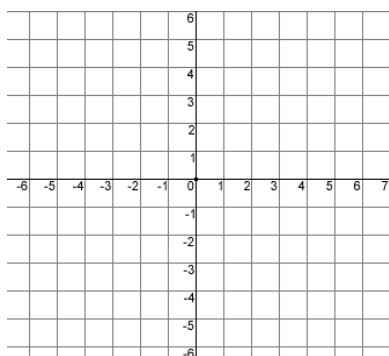
7) $y < -2x + 2$



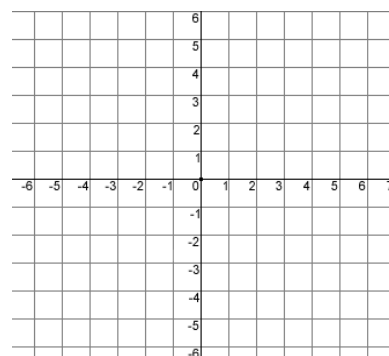
8) $y \geq \frac{1}{2}x + 1$



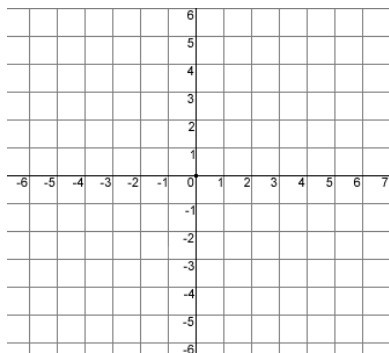
9) $3x - y \geq 5$



10) $x + 2y < -2$



11) $8x + y \geq 4$



12) $x - 3y < -9$

